

USPTO Form 1449		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No. 04859.84703		Serial No. 09/397,018	
INFORMATION DISCLOSURE CITATION Sheet 1 of 6				Applicant(s): Jonnie R. WILLIAMS			
				Filing Date: September 15, 1999		Group: 1731	
U.S. PATENT DOCUMENTS							
Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)	
Jan	4,907,605	3/13/1990	Ray et al.				
	4,906,274	3/6/1990	Mattox				
	5,127,934	7/7/1992	Mattox				
	5,125,420	6/30/1992	Livingston				
	4,836,222	6/6/1989	Livingston				
	4,805,642	2/21/1989	Rainer				
	4,709,710	12/1/1987	Gaisch et al.				
	4,685,478	8/11/1987	Malik et al.				
	4,566,469	1/28/1986	Semp et al.				
	4,559,956	12/24/1985	De Lange et al.				
	4,556,073	12/3/1985	Gravely et al.				
	4,364,401	12/21/1982	Keritsis				
	4,301,817	11/24/1981	Keritsis				
	3,664,034	5/23/1972	Wilson				
	3,202,157	8/24/1965	R.D. Touton				
Jan	3,039,475	6/19/1962	Neukomm et al.				
FOREIGN PATENT DOCUMENTS							
Examiner Initial	Document No.	Date	Country	Class	Subclass	English Abstract	
						YES	NO
Jan	DE 3904169A1	8/16/1990	Germany			X	
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)							
Declaration of Harold R. Burton, executed January 18, 2000, from Application Serial No. 08/879,905.							
EXAMINER J. Buller				DATE CONSIDERED 4/18/2000			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							
**Copies of references not provided at the time of this submission.							

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Sheet 2 of 6				Filing Date: September 15, 1999		Group: 1731	
U.S. PATENT DOCUMENTS							
Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
Jon		2,989,057	6/20/1961	Touton			
		2,475,568	7/5/1949	Moore, Jr.			
		3,024,792	3/13/1962	Touton			
		4,212,634	7/15/1980	Mitchell et al.			
		4,470,422	9/11/1984	Joubert et al.			
		5,335,590	8/9/1994	Crump, III et al.			
		4,557,280	12/10/1985	Gravely et al.			
		5,791,353	8/11/1998	Junemann et al.			
		4,622,982	11/18/1986	Gaisch et al.			
		4,651,759	3/24/1987	Uydess			
		4,572,219	2/25/1986	Gaisch et al.			
		5,023,376	6/11/1991	Shehad et al.			
		5,431,175	7/11/1995	Beckett et al.			
Jon		5,515,775	5/14/1996	Crump, III et al.			
FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation YES NO
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)							
Jon		"The <i>Nicotiana</i> Catalogue," Compilation of International Tobacco Germplasm Holdings, Cooperation Centre for Scientific Research Relative to Tobacco (CORESTA), 1998.					
EXAMINER J. Zuller					DATE CONSIDERED 4/18/2000		
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USPTO Form 1449  <b>INFORMATION DISCLOSURE CITATION</b>  Sheet 3 of 6		U.S. Department of Commerce Patent and Trademark Office <div style="border: 1px solid black; border-radius: 50%; width: 80px; height: 80px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 8px;">RECEIVED</div> <div style="text-align: center;"> <b>FEB 15 2000</b>  <small>PATENT &amp; TRADEMARK OFFICE</small> </div> </div>		Attorney Docket No. 04859.84703		Serial No. 09/397,018	
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Group: 1731							
U.S. PATENT DOCUMENTS							
FOREIGN PATENT DOCUMENTS							
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)							
Examiner Initial							
<div style="font-size: 2em;">J</div> <div style="border-left: 1px solid black; height: 100%; width: 10px; margin: 0 auto;"></div> <div style="font-size: 2em;">↓</div>		R.A. Andersen et al., <i>Changes in Chemical Composition of Homogenized Leaf-Cured and Air-Cured Burley Tobacco Stored in Controlled Environments</i> , 1982 American Chemical Society, J. Agric. Food Chem. 1982, 30, 663-668.					
		C.T. MacKown et al., <i>Tobacco-Specific N-Nitrosamines: Formation During Processing of Midrib and Lamina Fines</i> , 1988 American Chemical Society, J. Agric. Food Chem. 1988, 36, 1031-1035.					
		R.A. Andersen et al., <i>Accumulation of 4-(N-Methyl-N-nitrosamino)-1-(3-pyridyl)-L-butanone in Alkaloid Genotypes of Burley Tobacco during Postharvest Processing: Comparisons with N-Nitrosoanornicotine and Probable Nitrosamine Precursors</i> , Cancer Research Vol. 45, November 1985, pgs. 5287-5293.					
		W.J. Chamberlain et al., <i>Effects of Curing and Fertilization on Nitrosamine Formation in Bright and Burley Tobacco</i> , Phytochemical Research Unit, USDA, Agricultural Research Service, Beitrage zur Tabakforschung International, Vol. 15, No. 2, April 1992.					
		C. Mingwu et al., <i>Effect of Maleic Hydrazide Application on Accumulation of Tobacco-Specific Nitrosamines in Air-Cured Burley Tobacco</i> , J. Agric. Food (1994), 42(12), 2912-16.					
		W.J. Chamberlain et al., <i>Studies on the Reduction of Nitrosamines in Tobacco</i> , Tobacco International, (1986) Vol. 188, No. 16, pp. 38-39.					
		Q. Qungang, <i>Changes In Tobacco-Specific Nitrosamines, Alkaloids, Nitrate, Nitrite and Lamina Leachate Conductivity of Dark Tobacco During Curing</i> , Bulletin d'Information - Coresta, (1991) No. 2, pp. 7-22.					
		C. Mingwu, <i>The Source and the Regulation of Nitrogen Oxide Production for Tobacco-Specific Nitrosamine Formation During Air-Curing</i> , University of Kentucky, Lexington, (1998) 178pp. Avail., :UMI, Order No. DA9907718 From: Diss. Abstr. Int., B 1999, 59(9), 4548 Dissertation.					
<div style="font-size: 2em;">J</div>		W.J. Chamberlain et al., <i>Levels of N-nitrosoanornicotine in Tobaccos Grown Under Varying Agronomic Conditions</i> , Tobacco International, (1984) Vol. 186, No. 26, pp. 111-113.					
EXAMINER <div style="font-size: 1.5em;">J. Fuller</div>					DATE CONSIDERED <div style="font-size: 1.5em;">4/18/2000</div>		
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Sheet 4 of 6				Filing Date: September 15, 1999		Group: 1731	
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block; text-align: center;"> <b>U.S. PATENT DOCUMENTS</b>  FEB 15 2000  PATE... TRADE... </div>							
Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)	
Jan	5,139,035	08/18/1992	Lasch et al.				
	3,785,384	01/15/1974	Sylvester et al.				
	4,756,317	07/12/1988	Edwards				
	4,430,806	02/14/1984	Hopkins				
	3,699,976	10/1972	Abe et al.				
	3,773,055	11/1973	Sturgis et al.				
	3,877,468	4/1975	Lichtneckert et al.				
Jan	3,901,248	8/1975	Lichtneckert et al.				
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation	
Jan	1,484,663	02/14/1975	England			YES	NO
	WO 94/07382	04/14/1994	PCT			X	
	GB 2 064 294 A	06/17/1981	Great Britain			X	
	706,052	03/24/1954	England			X	
	1,767,677	6/1968	Germany				X
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)</b>							
Jan	H. R. Burton et al., "Influence of Temperature and Humidity on the Accumulation of Tobacco-Specific Nitrosamines in Stored Burley Tobacco", J. Agric. Food Chem., 1989, 37, pp. 1372-1377						
Jan	Abstract, "Treatment of Organic Materials", Research Disclosure, No. 29139, July 1988, XP000054259, New York, NY						
Jan	Search Report from EP 97 93 8069 dated October 14, 1999						
<b>EXAMINER</b> Jan				<b>DATE CONSIDERED</b> 4/18/2000			
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U.S. PATENT DOCUMENTS							
Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)	
Jan	4,317,837	3/1982	Kehoe et al.				
	4,802,498	2/1989	Ogren				
	4,821,747	4/1989	Stuhl et al.				
	4,874,000	10/1989	Tanol et al.				
	4,898,189	2/1990	Wochnowski				
	5,488,962	2/1989	Perfetti				
	2,758,603	8/1956	Heljo				
	3,394,709	7/1968	Remer				
	3,494,723	2/1970	Gray				
	3,494,724	2/1970	Gray				
Jan	3,845,774	11/1974	Tso et al.				
FOREIGN PATENT DOCUMENTS							
Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation	
						YES	NO
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)							
	Declaration of Harold R. Burton, Ph.D. with Exhibits A-H as follows.						
Jan	(A) Data from QD, FD, MW Sample Testing/1993 Study						
Jan	(B) Data from QD and FD Sample Testing/1994 Study						
Jan	(C) Progress Report/Undated						
EXAMINER J. Buller				DATE CONSIDERED 4/18/2000			
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## PATENT DOCUMENTS

Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
Jan	3,870,053	3/1975	Heitkamp et al.			
	4,559,956	12/1985	De Lange et al.			
	4,355,648	10/1982	Bokleman et al.			
	5,810,020	09/1998	Northway et al.			
	4,620,556	11/1986	Rosson et al.			
	5,372,149	12/1994	Roth et al.			
	5,803,081	09/1998	O'Donnell, Jr. et al.			
Jan	4,590,954	05/1986	Gooden			

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation
						YES NO

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Jan	(D) CORESTA Conference, Agronomy & Phytopathology Joint Meeting, Reunion Commune Des Groupes Agronomie Et Phytopathologie/Abstracts, Oxford 1995 (see Abstract on page 5 - Burton et al.)
Jan	(E) Overheads from 1995 CORESTA conference presentation by Burton, 1993 Study
Jan	(F) Overheads from 1995 CORESTA conference presentation by Burton, 1994 Study
Jan	(G) Wiernik et al., Effect of Air-Curing On The Chemical Composition of Tobacco/1995
Jan	(H) Burton letter to Jonnie R. Williams
Jan	International Search Report from PCT/US99/20909 dated December 23, 1999

EXAMINER

DATE CONSIDERED

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